

TOWN CENTER COMMUNITY PARK, PHASE II
-PRE-FABRICATED PEDESTRIAN BRIDGES-

GENERAL NOTES:

1. PEDESTRIAN BRIDGES 124'-6" x 8'-0" AND 153'-6" x 8'-0" WHICH ARE TO BE INSTALLED AS PART OF THE TOWN CENTER COMMUNITY PARK, PHASE II PROJECT, CIP 2006-33 ARE REFERENCED IN THE NOTES AND REQUIREMENTS SET FOR ON THIS SHEET.
2. BOTH PRE-FABRICATED PEDESTRIAN BRIDGES, JOB NO'S 81174A, AND 81174B ARE DESIGNED BY CONTECH BRIDGE SOLUTIONS, INC, ALEXANDRIA, MN.
3. FOUNDATION AND ABUTMENT DESIGNS FOR BOTH PRE-FABRICATED PEDESTRIANS ARE DESIGNED BY R2H ENGINEERING, INC, SAN DIEGO, CA.
4. ALL FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE TO THE RECOMENDATIONS SET FORTH BY THE PROJECTS SOILS REPORT PREPARED BY TERA COSTA CONSULTING GROUP, INC, SAN DIEGO, CA.

SPECIAL INSPECTION REQUIREMENTS:

1. THE PRE-FABRICATED BRIDGE SUPERSTRUCTURE IS TO BE FABRICATED AT THE CONTECH BRIDGE SOLUTION, INC., AISC CERTIFIED STEEL SHOP IN ACCORDANCE WITH SECTION 1704.3 AND TABLE 1704.3. SPECIAL INSPECTION FOR THE BRIDGE SUPERSTRUCTURES, PER CBC SECTION 1705.2, SHALL BE AS FOLLOWS:
 - A. INSTALLATION OF ALL CHORD, DIAGONAL AND BRACE DIAGONAL SPLICE BOLTS SHALL BE SUBJECT TO CONTINUOUS SPECIAL INSPECTION.
 - B. SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH CBC SECTION 1704.3.3 FOR BOLTS INSTALLED WITH THE "TURN-OF-THE-NUT" PROCEDURE AND ARE PROVIDED BY CONTECH BRIDGE SOLUTIONS SPLICING INSTRUCTION.
 - C. CONTINUOUS MONITORING OF THE TIGHTENING PROCESS IS REQUIRED FOR ALL BOLTING INSTALLATIONS.
2. SPECIAL INSPECTION FOR THE BRIDGE FOUNDATION / ABUTMENT SHALL CONFORM TO THE REQUIREMENTS SET FORTH ON STRUCTURAL DRAWINGS S-1, S-4, AND S-5.

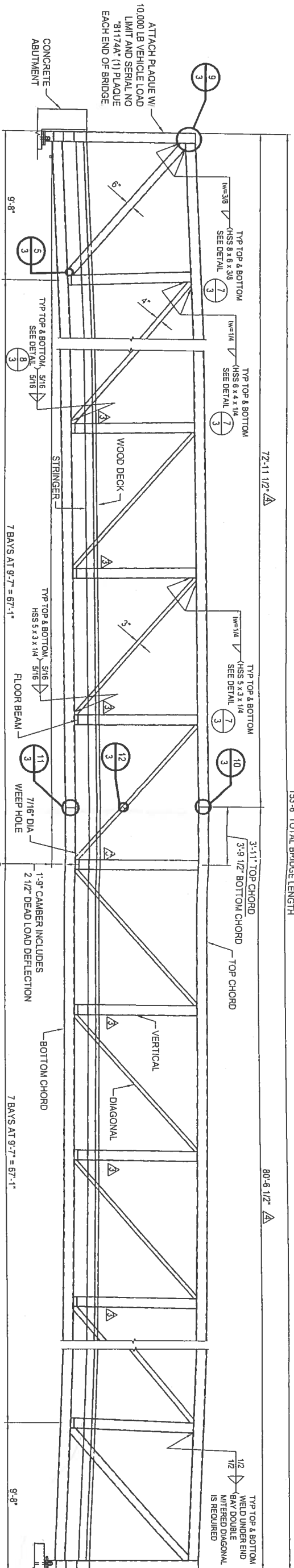
DISABLED ACCESS NOTES:

1. GRADES ON PEDESTRIAN BRIDGES AND APPROACHES TO BRIDGES COMPLY WITH CBC SECTION 1128B, IN WHICH CROSS SLOPES OF WALKING SURFACES DO NOT EXCEED 2%. SEE BRIDGE CROSS SECTION ON SHEET 1 OF THE EAST & WEST PEDESTRIAN BRIDGES RESPECTIVELY.
2. THE 153'- 6" x 8'-0" WEST BRIDGE HAS A 1'-4.5" CAMBER IN WHICH THE TRAVELED WALKWAY SLOPE IS 2.3% CONFORMING TO CBC SECTION 1128B. THE 124'- 6" EAST BRIDGE HAS A 1'- 9" CAMBER IN WHICH THE TRAVELED WALKWAY SLOPE IS 2.8% CONFORMING TO CBC SECTION 1128B. SEE SHEETS 1 OF 4 OF EAST AND WEST BRIDGE DRAWINGS RESPECTIVELY FOR BRIDGE CAMBER.
3. SIDEWALK APPROACHES TO PEDESTRIAN BRIDGES DO NOT EXCEED 5.0%.

THIS PROJECT SHALL COMPLY WITH THE 2007 CALIFORNIA BUILDING CODE, WHICH ADOPTS THE 2006 IBC.



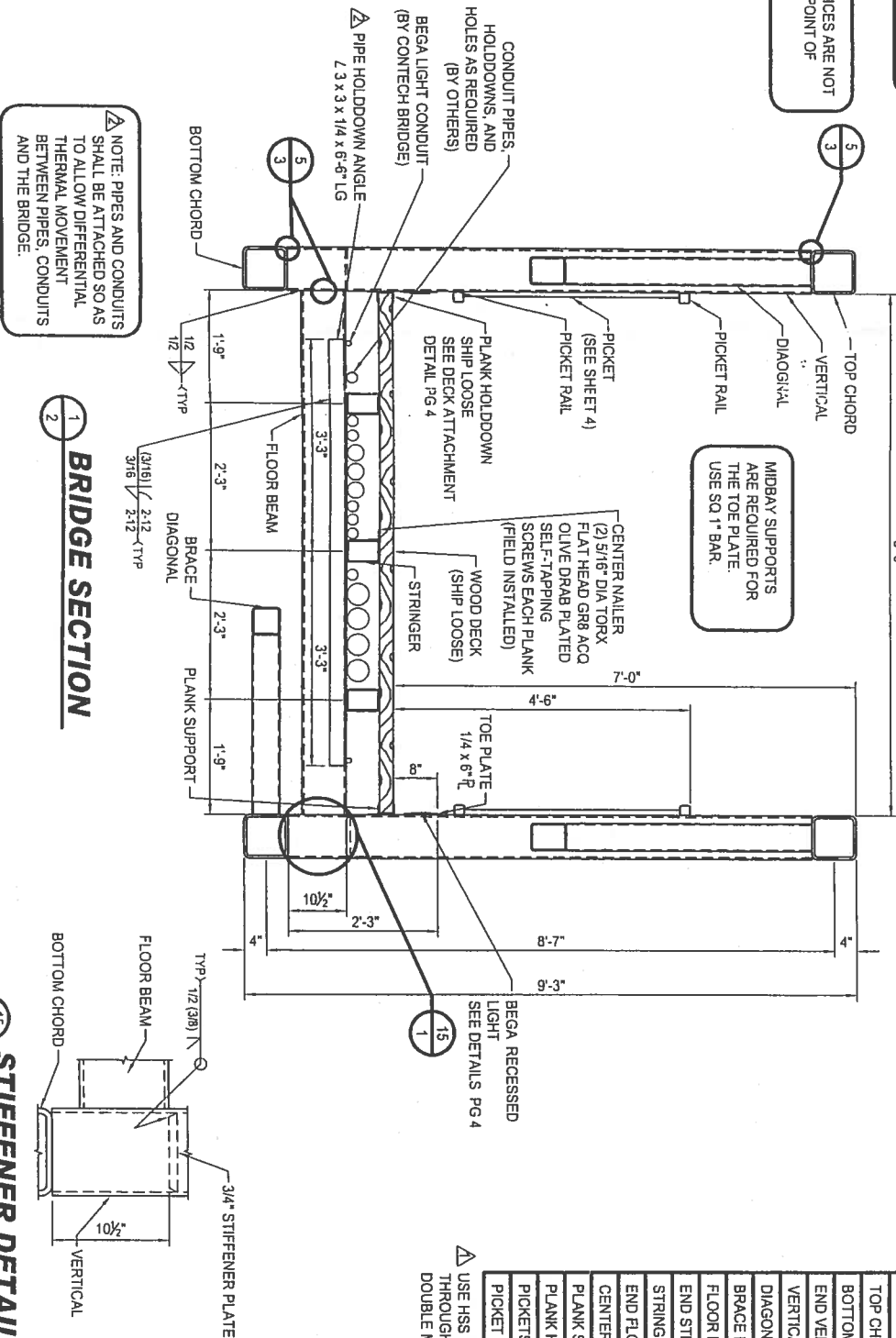
REFERENCES	PLANS ACCEPTED BY:	CITY OF SANTEE	DEPARTMENT OF DEVELOPMENT SERVICES	PROJECT NO.
R2H STRUCTURAL DRAWINGS S-1, S-4, S-5	DATE: 2/19/09	COVER SHEET FOR:		
CONTECH BRIDGE SOLUTIONS, INC	R.C.E. 60112 EXP. DATE: 6/30/2010	TOWN CENTER COMMUNITY PARK, PHASE II		CIP 2006-33
DRAWINGS NO. 1-4, JOBS 81174A & 81174B		PRE-FABRICATED PEDESTRIAN BRIDGES		



GENERAL NOTES

- DESIGN STRESSES ARE IN ACCORDANCE WITH THE CALTRANS BRIDGE DESIGN SPECIFICATIONS MANUAL.
- BRIDGE MEMBERS ARE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A647 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL SHAPES (F_y=50,000 PSI).
- BRIDGE DECKING NOMINAL 3-INCH THICK SELECT STRUCTURAL FIR (F_b=1,400 PSI min.), TIMBER DECK MATERIAL SHALL BE TREATED WITH ALKALINE COPPER QUANTANARY (ACQ) TO A 0.4 PCF RETENTION OR TO REFUSAL. SHIP LOOSE AND FIELD INSTALL.
- THE GAS METAL ARC WELDING PROCESS OR FLUX CORED ARC WELDING PROCESS WILL BE USED.
- ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS. WELD BETWEEN TOP CHORD AND END VERTICAL SHALL BE AS DETAILED.
- UNLESS OTHERWISE NOTED, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) OF A SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAGE MEMBER IN THE CONNECTION. WELDS SHALL BE APPLIED AS FOLLOWS:
 - BOTH ENDS OF VERTICALS (EXCEPT AS NOTED), DIAGONALS, AND FLOOR BEAMS SHALL BE WELDED ALL AROUND.
 - BRACE DIAGONALS WILL BE WELDED ALL AROUND.
 - BOTTOM OF STRINGERS WILL BE STITCH WELDED TO TOP OF FLOOR BEAMS.
 - MISCELLANEOUS NON-STRUCTURAL MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.
- BRIDGE DESIGN WAS ONLY BASED ON COMBINATIONS OF THE FOLLOWING LOADS WHICH WILL PRODUCE MAXIMUM CRITICAL MEMBER STRESSES:
 - 85 PSF UNIFORM LIVE LOADING ON THE FULL DECK AREA OR ONE 10,000 POUND VEHICLE LOAD. THE VEHICLE LOAD SHALL BE DISTRIBUTED AS A FOUR-WHEEL VEHICLE WITH 80% OF THE LOAD ON THE REAR WHEELS. THE WHEEL TRACK WIDTH OF THE VEHICLE SHALL BE 5'-6" AND THE WHEEL BASE SHALL BE 10'-0". THE VEHICLE SHALL BE POSITIONED SO AS TO PRODUCE THE MAXIMUM STRESS IN EACH MEMBER, INCLUDING DECKING.
 - 35 PSF WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
 - 20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH.
 - SEISMIC LOADS PER CALTRANS (SEE NOTE SHEET 2).
 - 144 PLF FOR PIPE AND CONDUIT LOAD.
- CLEANING: ALL EXPOSED SURFACES OF STEEL SHALL BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACES PREPARATION SPECIFICATIONS NO. 7 BRUSH-OFF BLAST CLEANING, SSPC-SP7-LATEST EDITION.

BRIDGE ELEVATION



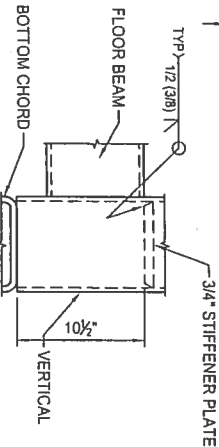
SCHEDULE OF MEMBERS

TOP CHORD	HSS 8 x 8 x 1/2
BOTTOM CHORD	HSS 8 x 8 x 1/2
END VERTICAL	HSS 8 x 8 x 1/2
VERTICAL	HSS 8 x 8 x 3/8
DIAGONAL	HSS 5 x 3 x 1/4
BRACE DIAGONAL	HSS 5 x 5 x 1/4
FLOOR BEAM	HSS 8 x 8 x 3/8
END STRUT	HSS 8 x 8 x 3/8
STRINGER	HSS 6 x 4 x 1/4
END FLOOR BEAM	HSS 10 x 8 x 3/8
CENTER NAILER	L2 x 2 x 3/16
PLANK SUPPORT	L3 x 3 x 1/4
PLANK HOLDOWN	L2 x 2 x 3/16
PICKETS	L1 1/4 x 1 1/4 x 1/8
PICKET RAIL	HSS 2 x 2 x 3/16

USE HSS 8 x 8 x 3/8 END BAY ONLY; USE HSS 6 x 4 x 1/4 2ND THROUGH 5TH BAYS.
DOUBLE MITER ALL DIAGONALS

BRIDGE SECTION

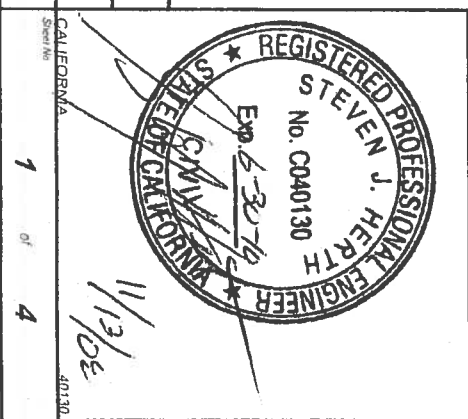
STIFFENER DETAIL



CONTECH®
BRIDGE SOLUTIONS INC.
8301 State Highway 29 N
Alexandria, Minnesota 55308
800-328-2047 320-852-7500 320-852-7067 FAX

CONTINENTAL®
BRIDGE
153'-6" x 8'-0"
TOWN CENTER COMMUNITY PARK PHASE II
PEDESTRIAN BRIDGE
SANTEE, CA

Designed	SJH	Drawn	CMA	Date Drawn	11/14/08
Checked	SJH	Approved	SJH	Job No.	81174A



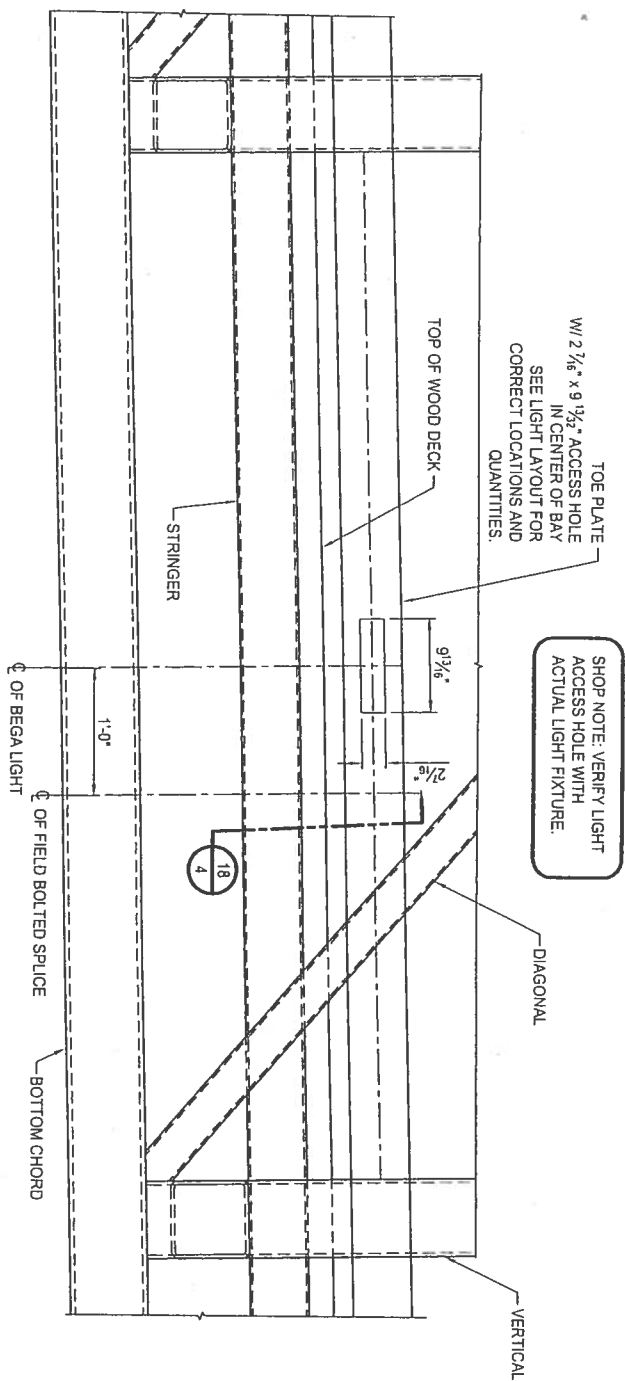


"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
 "H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
 "L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)

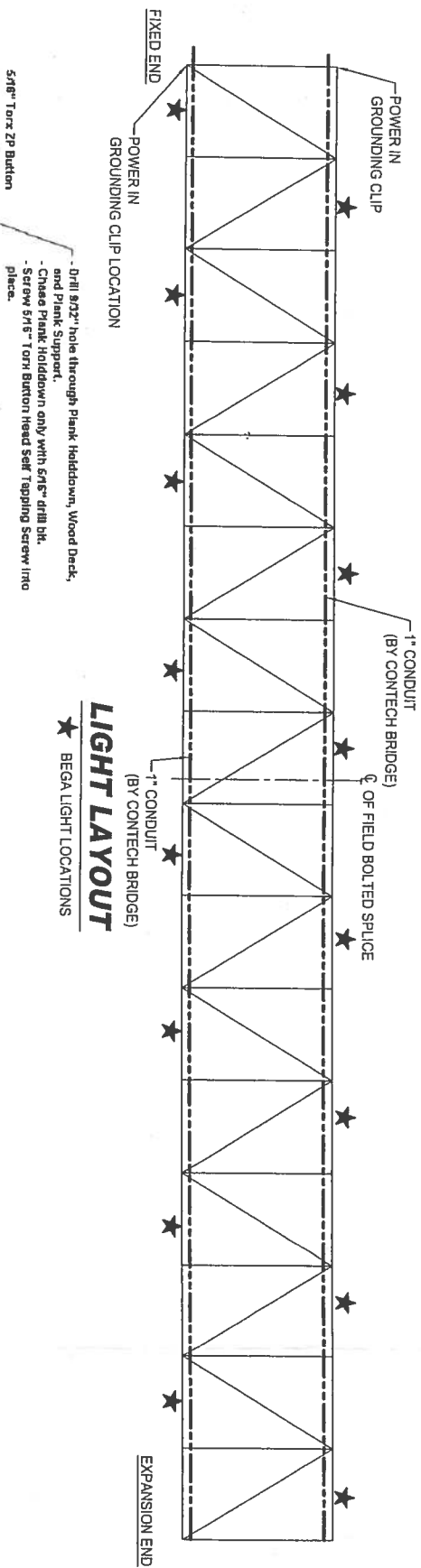


U.S. DEPARTMENT OF AGRICULTURE





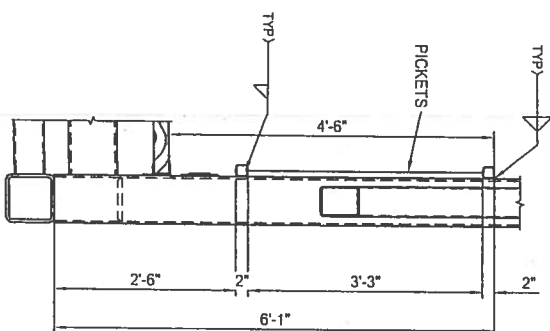
LIGHT ELEVATION



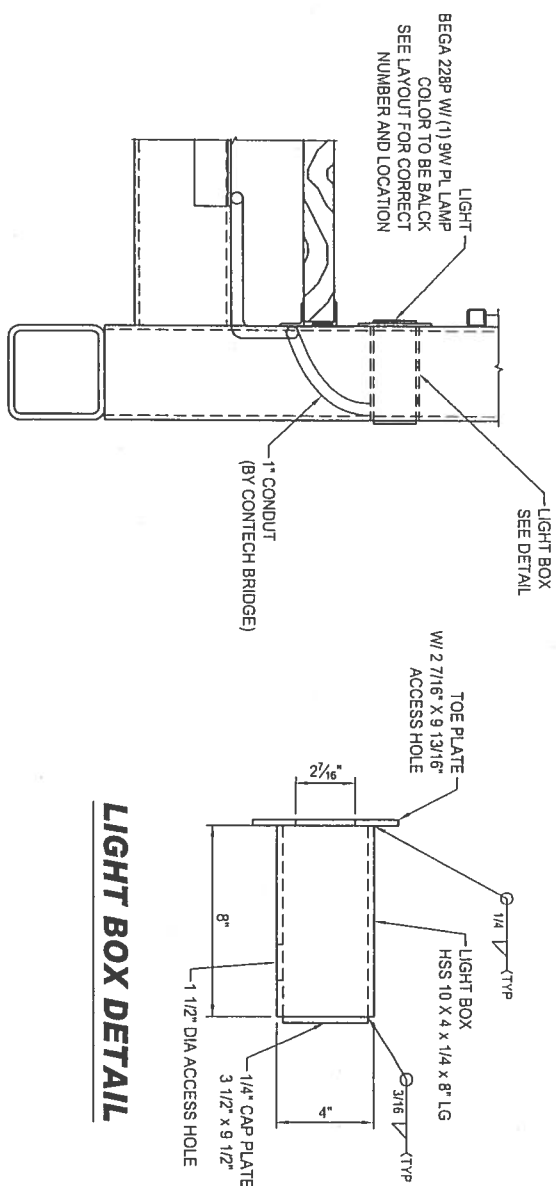
LIGHT LAYOUT

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- The diagram illustrates the assembly of a boat deck, showing the following components and their assembly order:
- 5/8" Torx ZP Button Head Grade 8 Self Tapping Screw, (1) per plank. (Shipped Loose)**: Used to secure the plank to the support.
 - Plank Holddown (Shipped Loose)**: A component used to hold the plank in place during assembly.
 - Plank Support**: The main support structure for the plank.
 - Bottom Chord**: The structural member at the bottom of the deck.
 - 5/8" Torx ZP Flat Head Self Tapping Screw, (2) per plank. (Shipped Loose)**: Used to secure the plank to the support.
 - 5/8" Torx ZP Flat Head Self Tapping Screw into plate.**: Used to secure the plank to the support.
 - Drill 9/32" hole through Plank Holddown, Wood Deck, and Plank Support.**: A hole drilled through the plank holddown, wood deck, and plank support.
 - Chase Plank Holddown only with 5/16" drill bit.**: A hole drilled through the plank holddown only.
 - Screw 5/16" Torx Button Head Self Tapping Screw into plate.**: A screw used to secure the plank to the support.
 - Drill 9/32" hole through Wood Deck and Center Hailer**: A hole drilled through the wood deck and center hailer.
 - Counterbore hole with Countersink bit.**: A hole drilled through the wood deck.
 - Screw 5/16" Torx Flat Head Self Tapping Screw into plate.**: A screw used to secure the plank to the support.
 - 5/16" Torx ZP Flat Head Self Tapping Screw, (2) per plank. (Shipped Loose)**: Used to secure the plank to the support.
 - 5/16" Torx ZP Flat Head Self Tapping Screw into plate.**: A screw used to secure the plank to the support.
 - Center Hailer**: The structural member in the center of the deck.
 - Stringer (if Used)**: A structural member used to support the deck.
 - Wood Deck**: The main deck surface.
- Tools Required:**
- Drill
 - 9/32" Drill Bit
 - 5/16" Torx Bit
 - 5/16" Torx Driver
 - Countersink Bit 5/16" OD #2 Degree

DECK ATTACHMENT

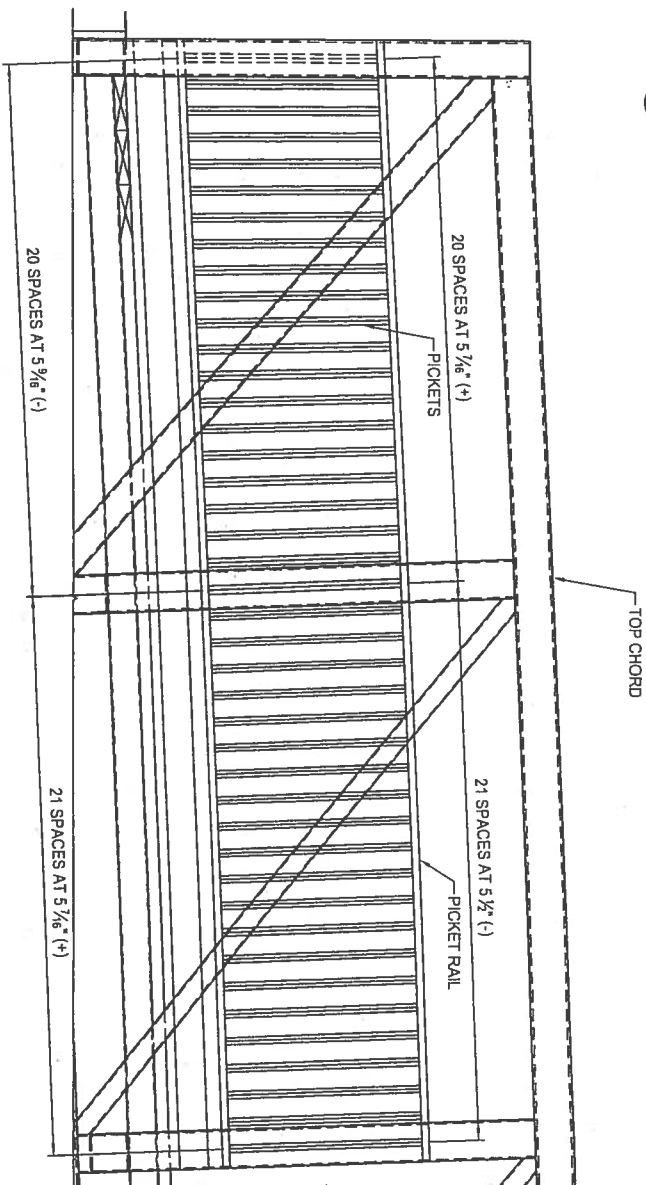


PICKET ATTACHMENT

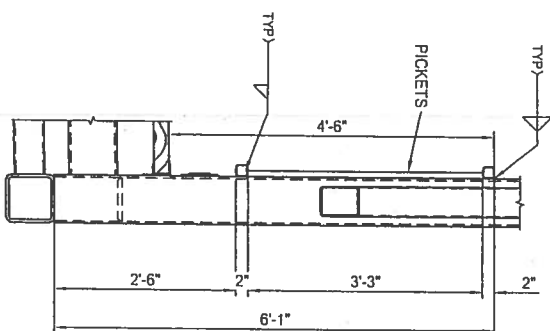


LIGHT BOX DETAIL

LIGHT SECTION



PICKET LAYOUT



PICKET ATTACHMENT

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Company

 BRIDGE SOLUTIONS, INC.
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CONTECH PRODUCT

 **CONTENITAL®**
BRIDGE

153'-9" x 8'-0"

**TOWN CENTER COMMUNITY PARK PHASE III
PEDESTRIAN BRIDGE
SANTÉE, CA**

Project Status	
Design	Draw
S/H	CMA
Check	Approve
S/H	S/H
	Job No
	81174A



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